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IN THE CLAIMS

Amend claims 1, 3, 5, and 8 as follows.

timing clock of the service input.

1 (1. (Amended) A method of recovering, at a destination node of a
2	packet-based telecommunications network, the timing clock of a service input at a
3	source node of said packet-based telecommunications network, the destination
4	node and the source node having a common network clock, comprising the steps
5	of:
6	(a) at the source node, dividing the timing clock of the service input
7	by a factor of an integer N to form residual time stamp (RTS) periods;
8	ρ_{l} (b) at the source node, counting the network clock cycles modulo 2^{p} ,
96	3 where 2 ^P is less than the number of network clock cycles within an RTS period
10	Land P is chosen so that the 2^{P} counts uniquely and unambiguously represent the
11	range of possible network clock cycles within an RTS period;
12	(c) transmitting from the source node to the destination node an RTS
13	at the end of each RTS period that is equal to the modulo 2^P count of network
14	clock cycles at that time;
15	ρ_{l} (d) determining from the RTSs received at the destination node, the
16	number of network clock cycles in each RTS period;
17	ρ_{l} (e) generating a pulse signal from the network clock at the destination
18	node in which the period between each pulse in the pulse signal equals the
19	determined number of network clock cycles in the corresponding RTS period; and
20	(f) multiplying the frequency of the pulse signal generated in step (e)
21	by [a factor of N.] the same factor of an integer N used in step (a) to recover the

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3. (Amended) A method of recovering, at a destination node of a packet-based telecommunications network, the timing clock of a service input at a source node of said packet-based telecommunications network, the destination node and the source node having a common network clock, comprising the steps of:

(a) at the source node, dividing the timing clock of the service input by a factor of an integer N to form residual time stamp (RTS) periods;

(b) at the source node, dividing the network clock by a rational factor to form a derived network clock;

(c) at the source node, counting the derived network clock cycles modulo 2^P , where 2^P is less than the number of derived network clock cycles within an RTS period and P is chosen so that the 2^{P} counts uniquely and

	13	unambiguously represent the range of possible derived network clock cycles
	14	within an RTS period;
	15	(d) transmitting from the source node to the destination node an RTS
	16	at the end of each RTS period that is equal to the modulo 2 ^P count of derived
	17	network clock cycles at that time;
	18	(e) at the destination node, dividing the network clock by the same
	19	rational factor used at the source node to form a derived network clock equal to
	20	the derived network clock at the source node;
	21	(f) determining from the RTSs received at the destination node, the
	22	number of derived network clock cycles in each RTS period;
	23	(g) generating a pulse signal from the derived network clock at the
	24	destination node in which the period between each pulse in the pulse signal equals
	25	the determined number of derived network clock cycles in the corresponding RTS
	26	period; and
	27	(h) multiplying the frequency of the pulse signal generated in step (g)
	28	by [a factor of N.] the same factor of an integer N used in step (a) to recover the
	29	timing clock of the service input.
	1	5. Apparatus for recovering , at a destination node of a packet-based
	2	telecommunications network, the timing clock of a service input at a source node
	3	of said packet-based telecommunications network, the destination node and the
	4	source node having a common network clock, comprising at the source node:
	5	dividing means for dividing the timing clock of the service input by a
	6	factor of an integer N to form residual time stamp (RTS) periods;
	7	counting means connected to the network clock for counting network
	8	clock cycles modulo 2^{P} , where 2^{P} is less than the number of network clock cycles
	9	within an RTS period and P is chosen so that the 2^P counts uniquely and
	10	unambiguously represent the range of possible network clock cycles within an
	11	RTS period; and
	12	transmitting means, responsive to the RTS periods formed by said
•	13	dividing means and the count of said counting means, for transmitting over the
	14	telecommunications network an RTS at the end of each RTS period that is equal to
	15	the modulo 2 ^P count of network clock [pulses] cycles at that time;
	15 16	the modulo 2^P count of network clock [pulses] <u>cycles</u> at that time; and comprising at the destination node:

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(or), 5

telecommunications network by said transmitting means;

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converting means responsive to the received RTSs and the network clock for converting the received RTSs into a pulse signal in which the periods between pulses are determined from the numbers of network clock cycles associated with [those RTS counts] the counts of network clock cycles within said RTS periods; and

means for multiplying [by a factor of N] the frequency of the pulse signal generated by said <u>converting</u> means [for converting.] <u>by the same factor of an integer N used in said dividing means for recovering the timing clock of the service input.</u>

8. (Amended) Apparatus for recovering , at a destination node of a packet-based telecommunications network , the timing clock of a service input at a source node of said <u>packet-based telecommunications</u> network, the destination node and the source node having a common network clock, comprising at the source node:

first dividing means for dividing the timing clock of the service input by a factor of an integer N to form residual time stamp (RTS) periods;

second dividing means for dividing the network clock by a rational factor to form a derived network clock;

counting means connected to the network clock for counting derived network clock cycles modulo 2^P , where 2^P is less than the number of derived network clock cycles within an RTS period and P is chosen so that the 2^P counts uniquely and unambiguously represent the range of possible derived network clock cycles within an RTS period; and

transmitting means, responsive to the RTS periods formed by said first dividing means and the count of said counting means, for transmitting over the telecommunications network an RTS at the end of each RTS period that is equal to the modulo 2^P count of derived network clock [pulses] cycles at that time;

and comprising at the destination node:

receiving means for receiving the RTSs transmitted over the telecommunications network by said transmitting means;

means for dividing the network clock by the same rational factor used at the source node to form a derived network clock;

converting means responsive to the received RTSs and the derived network clock for converting the received RTSs into a pulse signal in which the periods between pulses are determined from the numbers of derived network clock cycles associated with [those RTSs] the counts of derived network clock cycles

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